

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/003283

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07H19/16 C07H19/23 A61K31/7076 A61P9/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07H A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 241 176 A (PFIZER PROD INC) 18 September 2002 (2002-09-18) example 33 the whole document	1,30
A	----- Z.-G. GAO ET AL.: "N6-Substituted adenosine derivatives: selectivity, efficacy, and species differences at A3 adenosine receptors" BIOCHEMICAL PHARMACOLOGY, vol. 65, 2003, pages 1675-1684, XP002309313 compounds 31-33 the whole document	1,30
A	----- US 5 688 774 A (JEONG HEAOK KIM ET AL) 18 November 1997 (1997-11-18) the whole document	1,30
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

20 December 2004

Date of mailing of the international search report

12. 04. 2005

Name and mailing address of the ISA

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# INTERNATIONAL SEARCH REPORT

PCT/GB2004/003283

G.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AFIFY H M N M ET AL: "A NOVEL AND FACILE REACTION TO N6-ALKYLATED ADENOSINE VIA BENZOTRIAZOLE AS A SYNTHETIC AUXILIARY" JOURNAL OF HETEROCYCLIC CHEMISTRY, HETEROCORPORATION. PROVO, US, vol. 37, no. 2, March 2000 (2000-03), pages 339-341, XP001147847 ISSN: 0022-152X the whole document	1,30
A	----- SIDDIQI S M ET AL: "SEARCH FOR NEW PURINE- AND RIBOSE-MODIFIED ADENOSINE ANALOGUES AS SELECTIVE AGONISTS AND ANTAGONISTS AT ADENOSINE RECEPTORS" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 38, no. 7, 1995, pages 1174-1188, XP000882724 ISSN: 0022-2623 the whole document	1,30
P,X	----- WO 03/061670 A (DAVIES ROBIN HAVARD ; SEVILLANO LUIS GARCIA (GB); MUSCAGEN LTD (GB); M) 31 July 2003 (2003-07-31) the whole document -----	1-16, 20-40

# INTERNATIONAL SEARCH REPORT

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: **38-40 (in part)**  
because they relate to subject matter not required to be searched by this Authority, namely:  
**Although claims 38-40 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound.**
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

See annex

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7 (in part), 8-15 (in full), 16 (in part), 20-24 (in part), 25 (in full), 26-40 (in part)

Compounds of the structural formula of claims 1 or 20 where X1 is of the formula II of claim 1, and methods, compositions and uses pertaining thereto.

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2. claims: 1-7 (in part), 16 (in part), 17-19 (in full), 27 (in part), 29-40 (in part)

Compounds of the structural formula of claim 1 where X1 is of the formula III of claim 1, and methods, compositions and uses pertaining thereto.

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3. claims: 20-24 (in part), 26 (in part), 28-40 (in part)

Compounds of the structural formula of claim 20 where X1 is as defined in claim 20, and methods, compositions and uses pertaining thereto, insofar as this subject does not fall within the first subject.

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# INTERNATIONAL SEARCH REPORT

PCT/GB2004/003283

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1241176	A	18-09-2002	BR 0200782 A	07-01-2003
			CA 2376738 A1	16-09-2002
			EP 1241176 A1	18-09-2002
			JP 2002322193 A	08-11-2002
			MX PA02002971 A	14-07-2003
			US 2003055021 A1	20-03-2003
US 5688774	A	18-11-1997	US 5773423 A	30-06-1998
			AT 206432 T	15-10-2001
			AU 7331094 A	13-02-1995
			DE 69428536 D1	08-11-2001
			DE 69428536 T2	06-06-2002
			EP 0708781 A1	01-05-1996
			WO 9502604 A1	26-01-1995
WO 03061670	A	31-07-2003	CA 2474337 A1	31-07-2003
			EP 1469864 A1	27-10-2004
			WO 03061670 A1	31-07-2003